

Fig. 1A

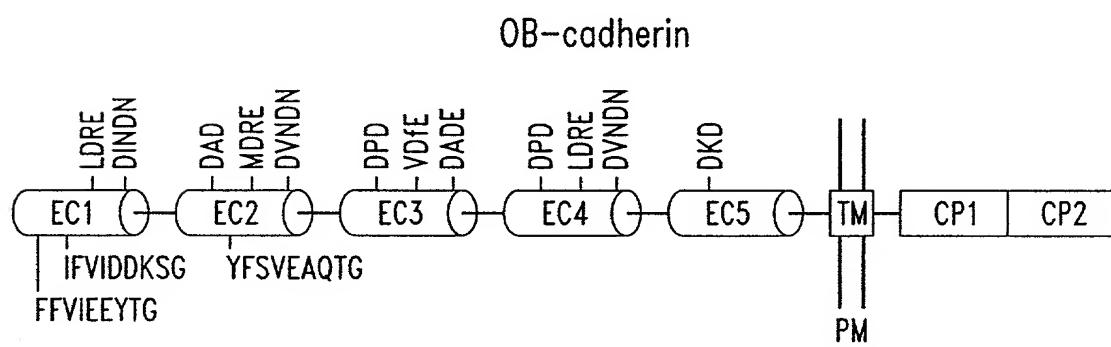


Fig. 1B

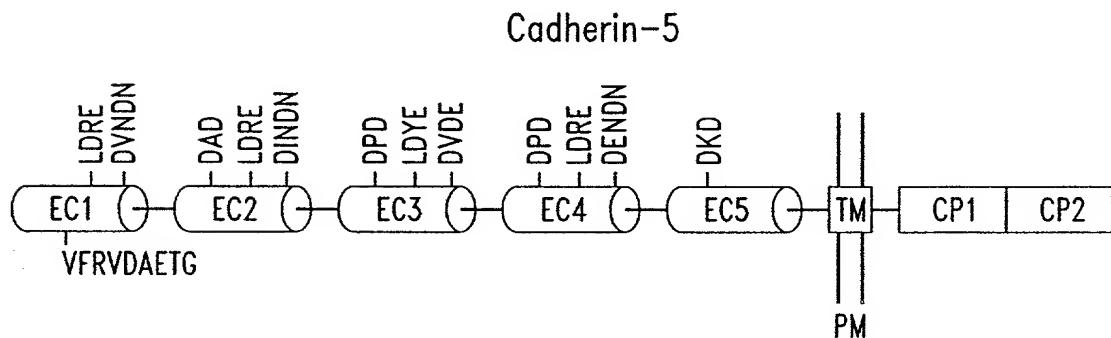


Fig. 1C

Cadherin-6

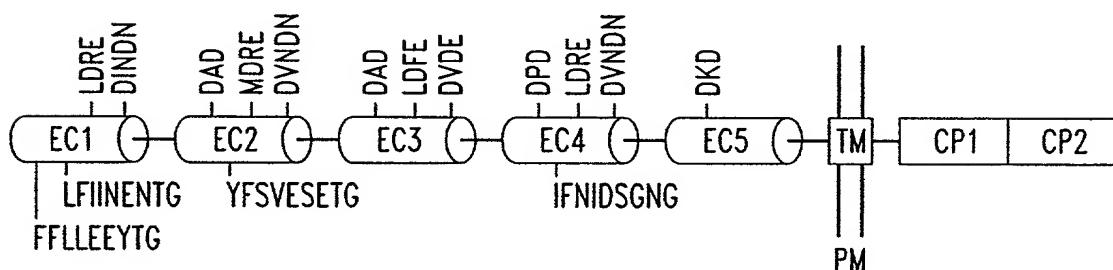


Fig. 1D

Cadherin-7

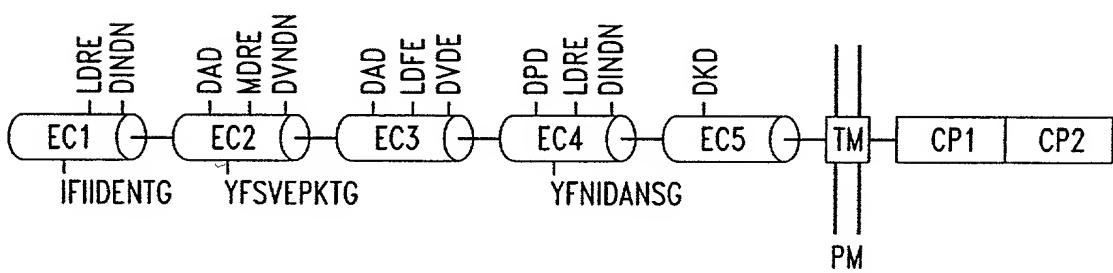


Fig. 1E

Cadherin-8

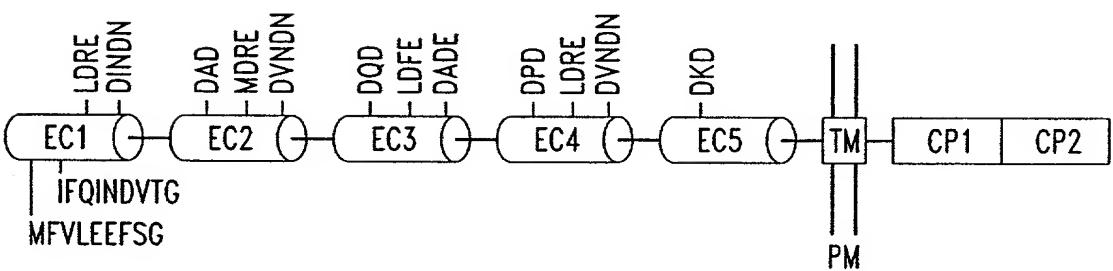


Fig. 1F

Cadherin-12

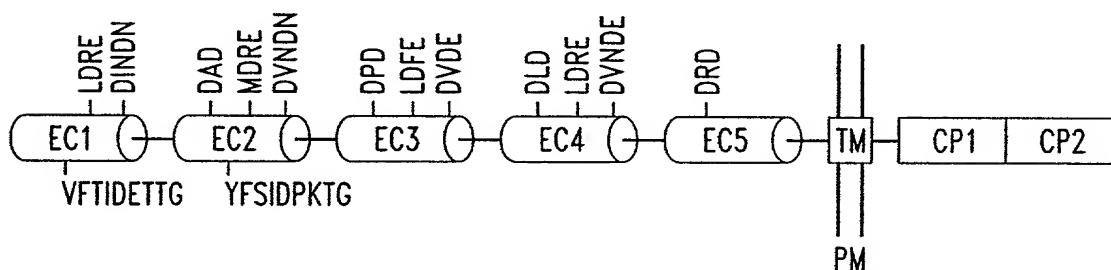


Fig. 1G

Cadherin-14

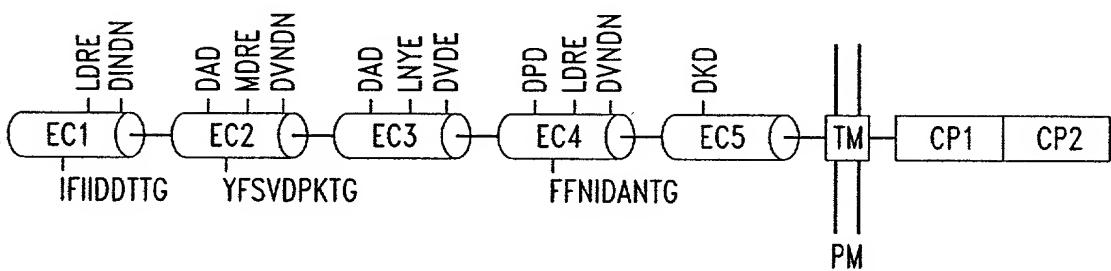


Fig. 1H

Cadherin-15

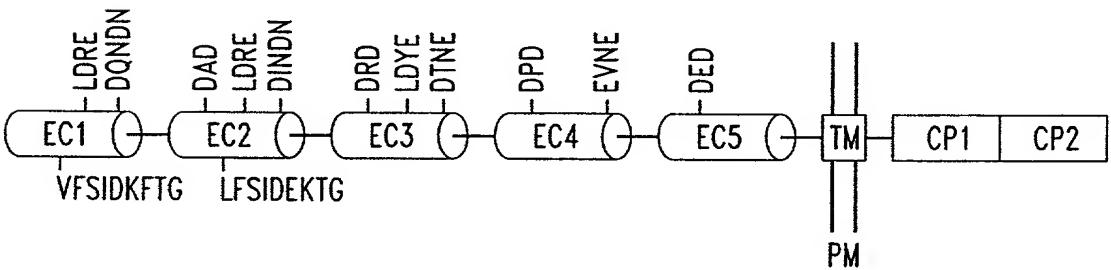
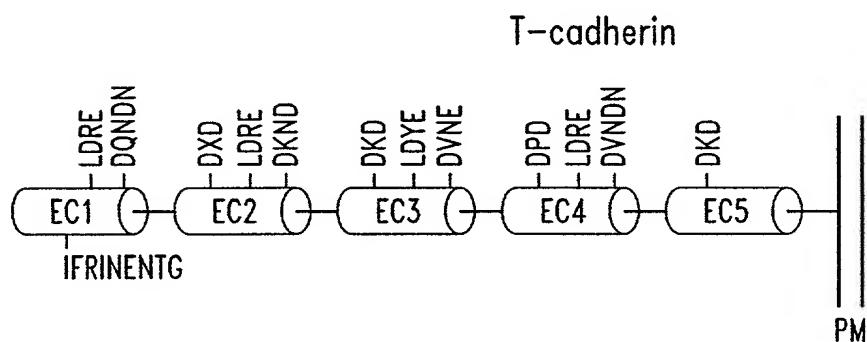
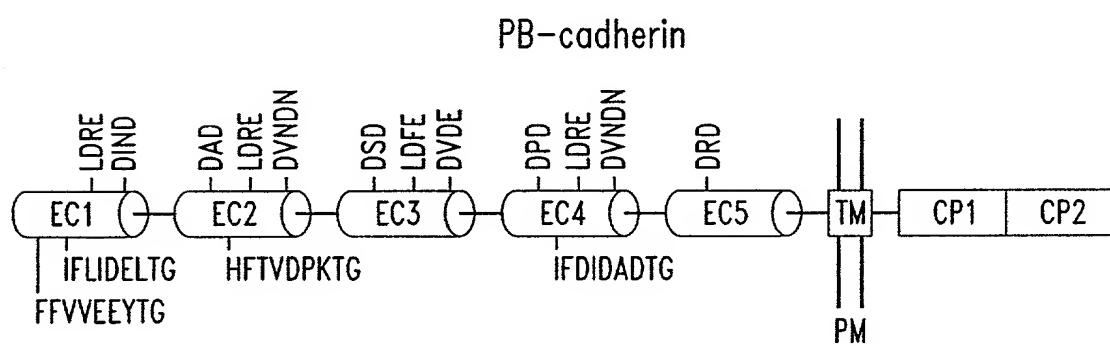


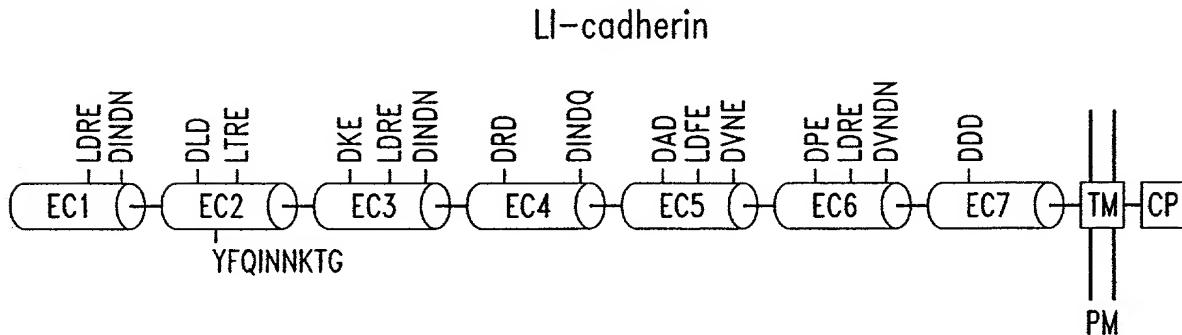
Fig. 1I



*Fig. 1J*



*Fig. 1K*



*Fig. 1L*

Protocadherin 43

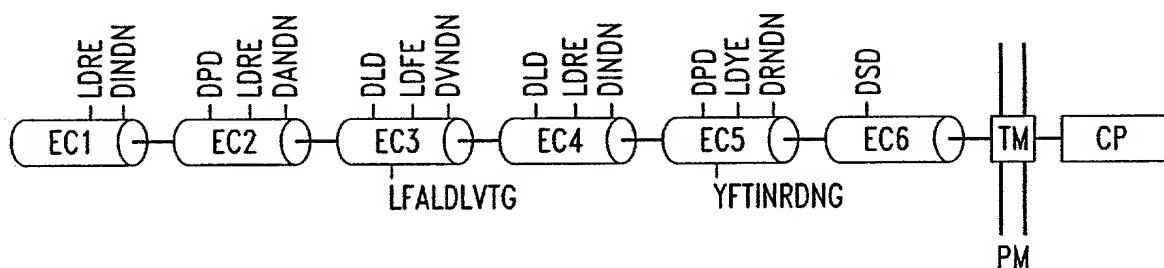


Fig. 1M

Protocadherin 68

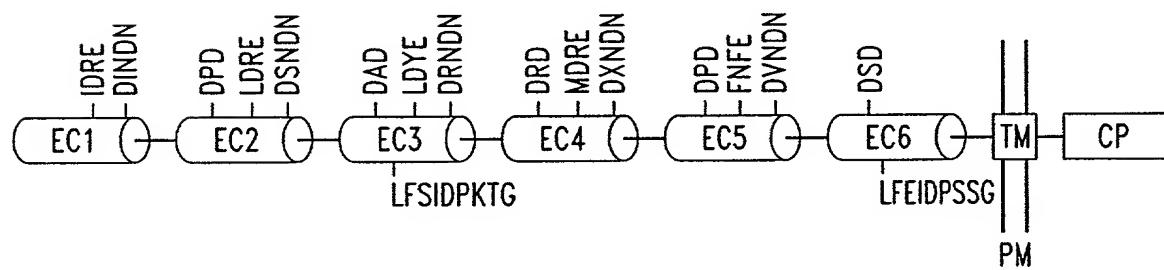


Fig. 1N

Desmoglein 1

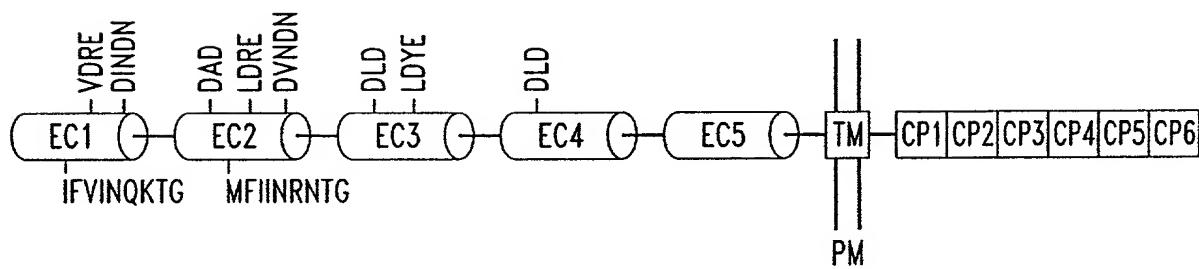


Fig. 10

Desmoglein 2

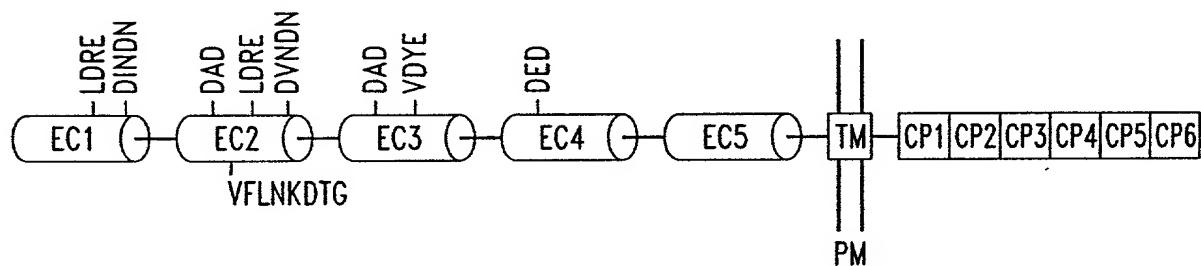


Fig. 1P

Desmocollin 1

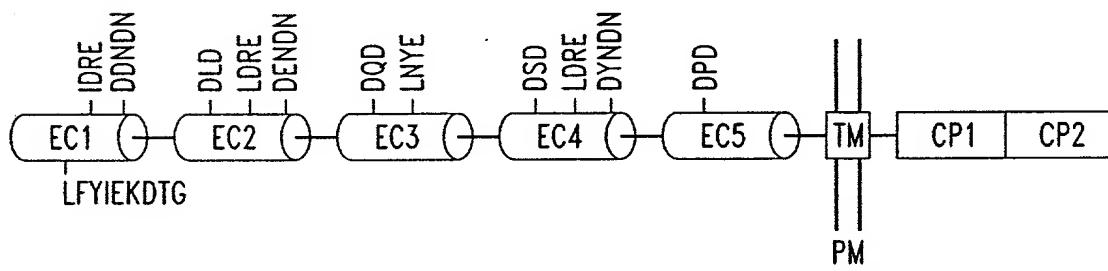


Fig. 1Q

Desmocollin 2

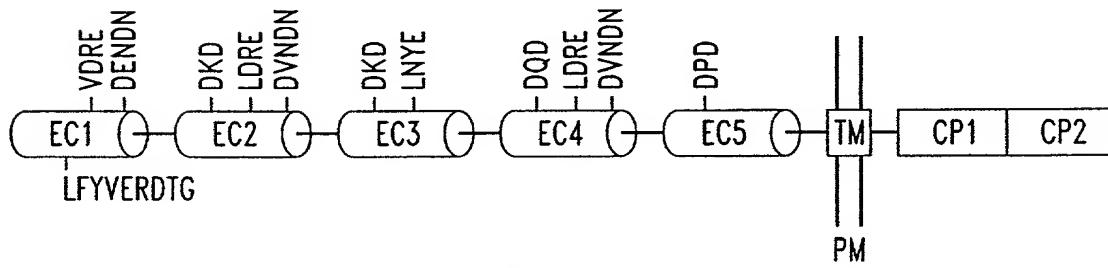


Fig. 1R

Desmocollin 3

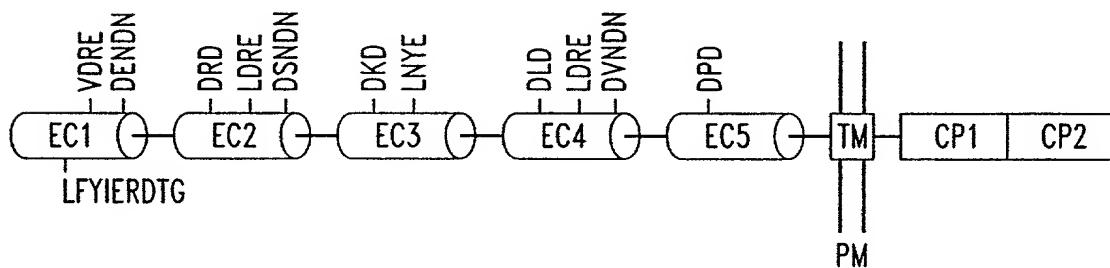


Fig. 1S

Desmocollin 4

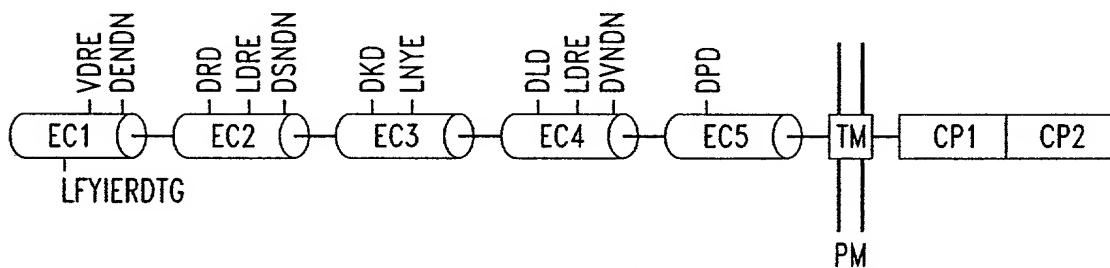


Fig. 1T

Cnr1

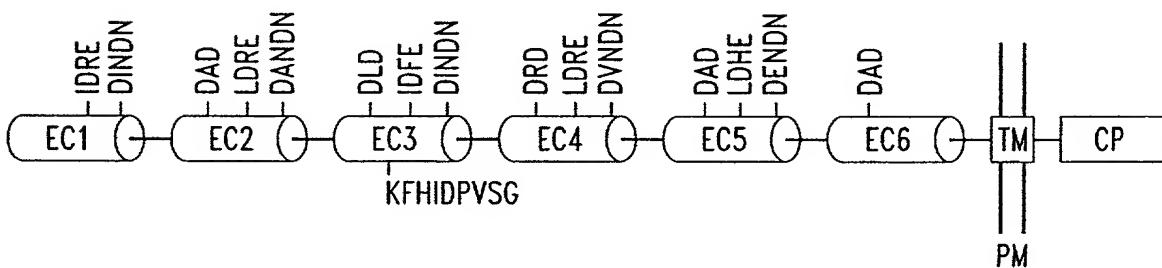
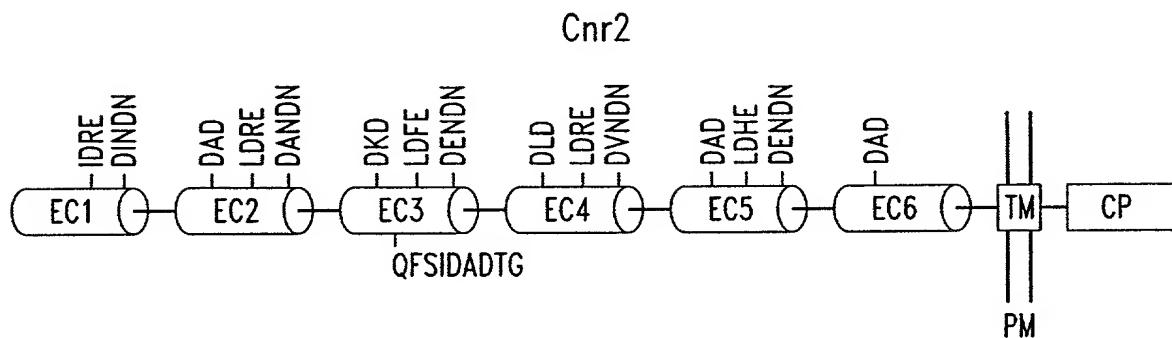
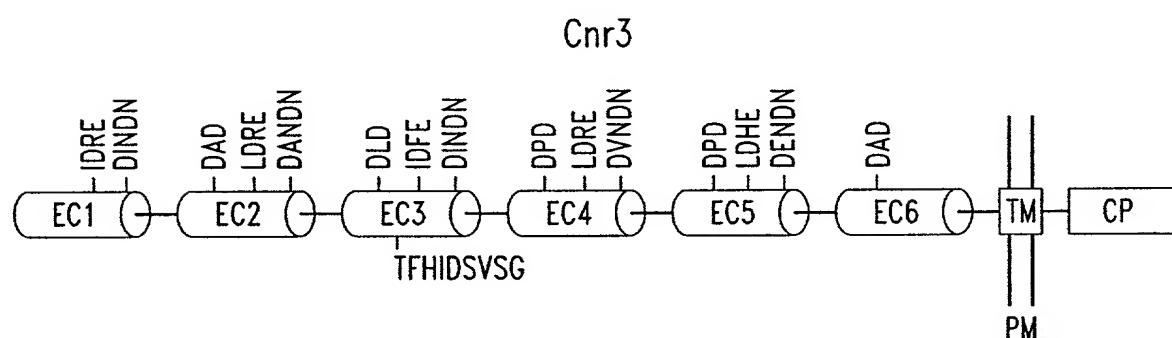


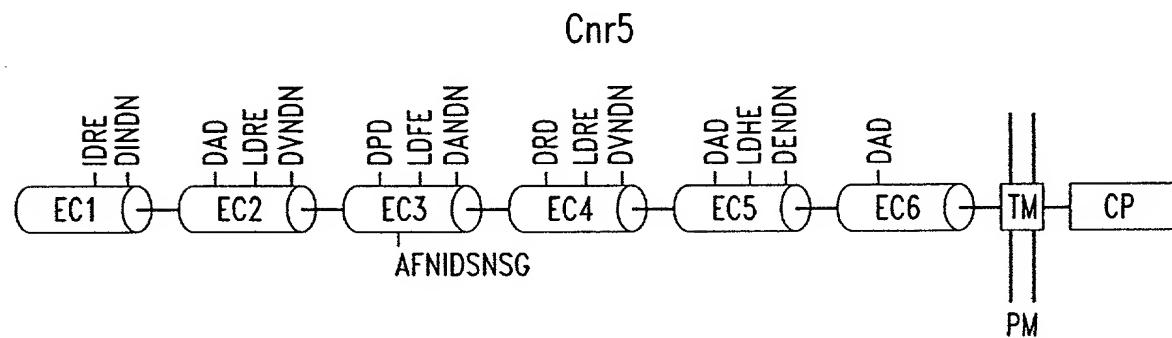
Fig. 1U



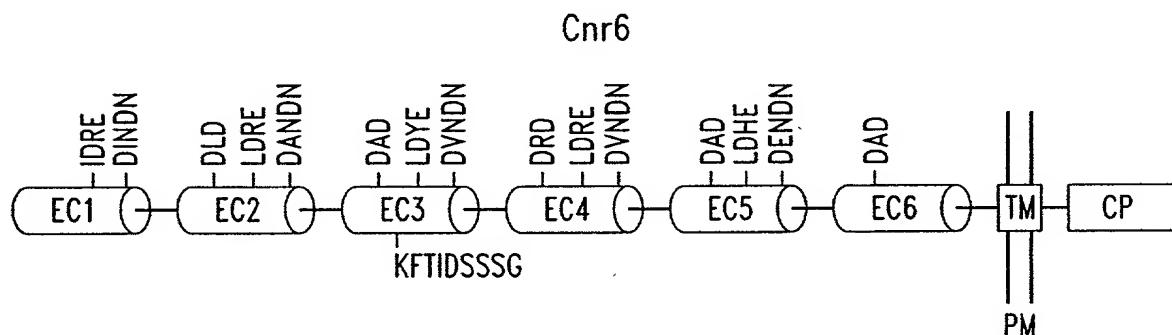
*Fig. 1V*



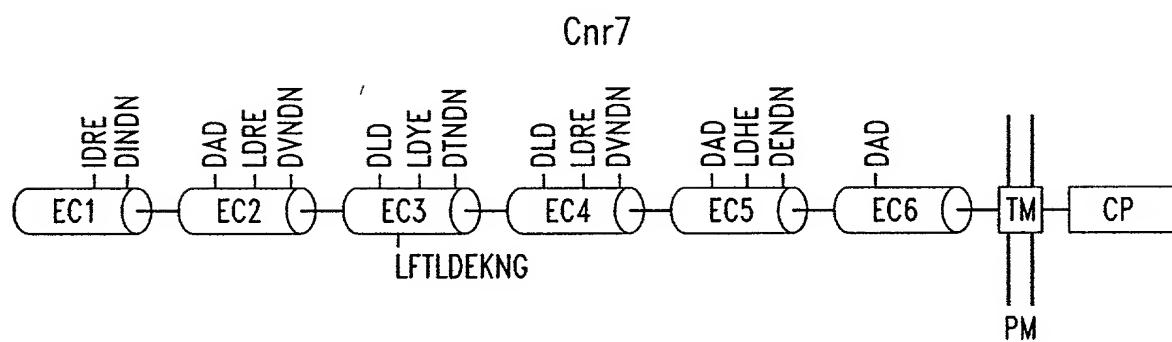
*Fig. 1W*



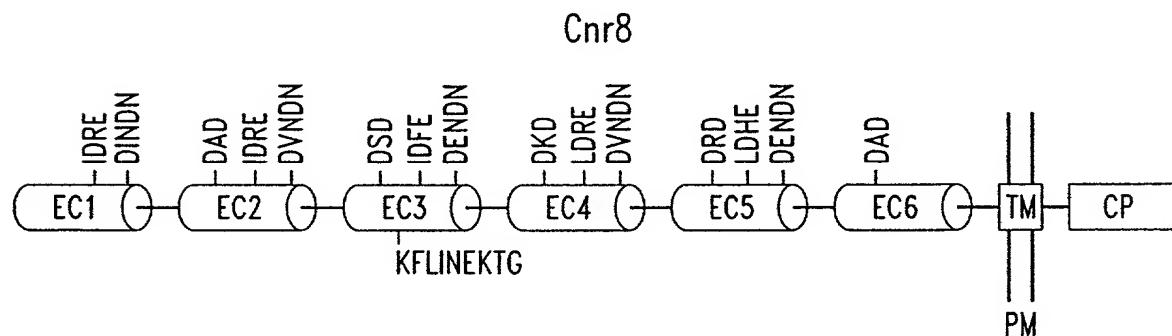
*Fig. 1X*



*Fig. 1Y*



*Fig. 1Z*



*Fig. 1AA*

Obcad	EC1	RSKRGWNNQFFVIEETGDPYLVRGLHSIDSGD--.GNIKYILSSEGAG--.TIFVIDKSGN1-HATKLDREREAQ--.YTLMAQAVDRD--.NRPLEPSEFIVKQDINDNPPEF
Obcad	EC2	--.LHETYHANPERS-NWGTSVIQNTASDADPPTGNSAKLVSYILEGP--.YFSVEAQTGITRITALPIMREAKEE--.YHVIQAKDNGG-HMGGSLGTTKVITTLTDWNNDPPEF
Cad5	EC1	RQKDWIWNQHIDEENKTSPLPHVGKISSVSRKN--.AKYLLKGEVIG--.KVFRVDAAETGDV-FAIERLDRNISE--.YHLTAVIDKDTG--.ENLETPSSEFTIKVHDVNDNWPVF
Cad6	EC1	RSKRSMWNQFFLLEETGSDYQYVGLHSDQDRGD--.GSLKYILSGDGAG--.OLFINTENTGDI-QATKRLDREKEPV--.YILRAQAIRRT--.GRPVEPESEFTIKTHIDNDNEP1F
Cad6	EC2	--.TKEVYTATVPEIS-DVGTTFVQVTAIDADDPTGNSAKWVSYILQGP--.YFSVESETGIIKTALLNMRNREQ--.YQVVIQAKDNGG-QMGGSLGTTVNTLTIDWNNDPPEF
Cad6	EC4	--.SKLAYLQIREDA-QINTTIGSVAQDPAAR--.NPVKYISYDHTMD--.RIFTIDSANGSI -FTSKLILRETLLW--.HNITVIAETEINN--.PKCSSLRVLPLYIKVLDWNNDPPEF
Cad7	EC1	RTKRSWWNQFFVLEEMGSQDPLYVGKHLSDWDKGD--.GSIKYILSSEGAS--.SIFIIDENTGDI-HATKLDRREEQAY--.YTLRAQAHDRLT--.NKPVPESEFVIKIQDINDNPPEF
Cad7	EC2	--.LDGPyTAGVPEMS-PVGTWSQVTAIDADDPTGNSARVWVSYILQGP--.YFSVERPKTGIIKTALPIMREAKEQDQ--.YLLVIQAKDNG-QNGGSLGTTSVTVTLTDWNNDPPEF
Cad7	EC4	--.TSRLYSNWSEAA-KVGTITGTVAAHDPSNL--.SPVRYSTDRLDE--.RYFTNDTANSGV1-TTAKSLDRETNAV--.HNITVLAMESON--.PAQJGRGYWATTLDINDNAPEF
Cad8	EC1	RSKRGWNNQFFVLEETGSDPEPILVGRLHTLDPGS--.KKIKYILSGDGAG--.TIFQINQDVTGDI-HAIKRLDREKEAE--.YTLTAQAVDMEET--.SKPLIEPPSEFTIKVQDINDNPPEF
Cad12	EC1	RVKRGWNNQFFVLEETGSDPEPILVGRLHTLDKG--.GTVKYTLSDGAG--.TVFTIDEETTGD1-HAIRSLDREKEKF--.YTLRAQAVDIEET--.RKPLIEPESEFTIKVQDINDNPPEF
Cad12	EC2	--.LDGPyTAGVPEMS-PVGAVALQVKATADDPTGNSARVWVSYILQGP--.YFSIDPKTGIVRITALPIMREKEQ--.YQVVIQAKDNGG-QLGGLAGTTVNTLTIDWNNDPPEF
Cad14	EC1	RPKRGWNNQFFVLEETGSDPEPILVGRLHTLDKG--.HSTKSLDREQKTH--.YVLHAQAIIDRRT--.NKPLIEPESEFTIKVQDINDNPPEF
Cad14	EC2	--.TDGPyTAGVPEMS-DMGTSVLQVTAIDADDPTGNSARVWVSYILQGP--.YFSVDPKTGIVRITALHNMREAREH--.YSVVIQAKDNG-QVGGSLGTTVNTLTIDWNNDPPEF
Cad14	EC4	--.SMPSYLMEVYENA-KJGTYWGTVLADQDPDSTN--.SLVRFINYVNEYD--.FEFNIDANTGTRT-TKVLDRRETPW--.YNITVTASEIDN--.PDLSLSHVTGIRLVDWNNDPPEF
Cad15	EC1	RVRRAWTTPJSISENKKRLPYPLVQTKSDKQK--.IGSVTISIQPGQDIEEPGVFSIDKFTGKV-FLNAMLDREKTDR--.FRLRAFDLGG--.STILEDPTOLEIWWQDQDNRPAP
Cad15	EC2	--.LQEAFTRGVLEGA-VPGTVTRAETADDPTTNAALRFLSQGSDE--.LFSTIDELTEGETRTVQGLREVVAV--.YNLTLQVA-D--.MSGDGJ-TATASAITLDDINDNAPEF
Tcad	EC1	-RQRBSIVSPILLIPENORQPFPRVGKVIDSDRPERSKRLTGKGVQERKG--.TFRINENTGSV-SVTRTLDRERIAV--.YQLFVETTDWV--.KTLEGPVPLEVIVIDONDNRPTF
PBcad	EC1	RVKRGWNNQFFVWEETGTEPLYVGKIKHSDSDEGD--.GTIKYTISSEGAG--.TIFLIDELTGD1-HATERLDREREQKTF--.YTLRAQARDRAT--.NRILLEPESEFTIKVQDINDSEPF
PBcad	EC2	--.LHGPyTAGVPEMS-PTGTSIMQWMSADDPTGSSARLYVSVLGEH--.HFTDVKTGIVTAVPDLDRESQER--.YEWVIQATDQAG-QLGGSLGTTVTVTIDWNNDPPEF
PBcad	EC4	--.RPPSGLEVOEDA-QVGSVLGVWTARDPAAN--.RPVRAIDRSDE--.QIFDIDADTGAI-VTCKGLDRETAGW--.HNITVLAMEADN--.HAQLSRASLRIRIILDWNNDPPEL
Licad	EC2	--.LQSKYEGSVRQNS-RPGKPFELYVNAIDLDDPATNGQLYYQIVIQLPMINNNYFQINMKTGAI--.SLTRESSQELNPAKPNYLVISVKONGQOSENFSOTTSUDIVTENIKAPAP
Pcd43	EC3	--.NOSLYRARVPGGC-TSGTRVQVQLATDLDGP--.NGEITIYSFGSHMRAGVR-QLFALDVYGM--.TIKGRLDIFEDTKL--.HEIYIQLQAKDNGA--.NPEGAHCKVILVEIDWNNDPPEI

Fig. 24

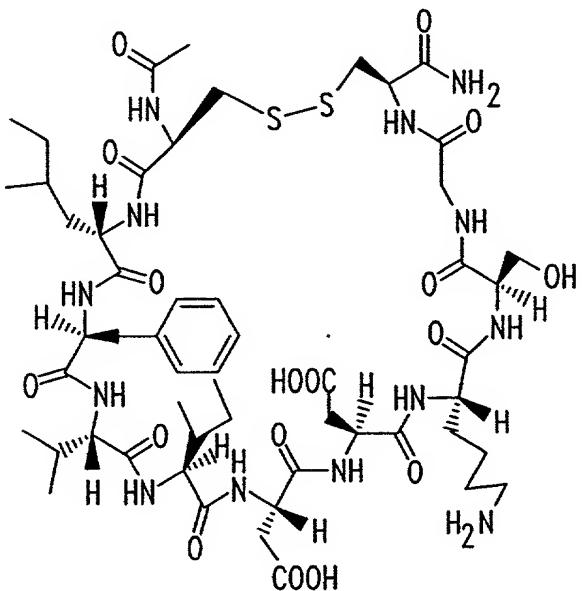
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Pcd68	EC3	-----EAPSYLVELPENT-PLGTVVIDLNADEGP--ANGEVLYFSYYVPDRVR-ELFSTDPKTGII-RVKGNLDYEENGIV--NLIPAHCKVTVKLIDRNDAPII
Pcd68	EC6	VLPTLQNTAELQPRNAGLGYLVSTYRALDSDFGE--SGRLTYEVGIVND--HILFEDPSSGEI-RTLHPPWEDUTPV-----VELVVKUTDHGKPT-----
Dsg1	EC1	RQKREWTKFAAACREGEDNSKRNPIAKTHSDCAAN---QCVTYRISGVGIDQPYGGTFVINQKTCGI-NITSIVDREVTPF-----FIITYCRALNSMG---QDLERPLELRVRYLDINDNPPVF
Dsg1	EC2	SMAFAQGQEEINS-NANTLWMLNATDADEPINLNLSKAFKITRQEPPSDSP--MFETINRNNTGEITRTMNNFLDREQVQG-----YALAVRGSSDRDG-GADGMSAECECNIKLVDNDNIPYM
Dsg2	EC2	TQDIFVGVEELS-AAHTLWMKINMATDADEPINLTNSKTSYRIVSLEPAYPP--VFYLNKDTGEIYTTSVTLDRREEISS-----YTLTVEARDINGEVTDKPKVQAOQVQIRTLVDNDNIPV
Dsc1	EC1	RWAPIPCASLMENSLGPFLQHQVQQIQSDDAQN---YTIFYSISGPVDKEPFNLFYIEKDGTI-FCTRSIDRKEYQ-----FALGYGATTADG--YAPEYPLP-LIKIEEDDNAPY
Dsc2	EC1	RWAPIPCASMLENSLGPFPLFLQQVQSDTAQN---YTIVYSSTRGPVDQEPRLNFYVERDTGKL-YCTRVPDREQYES-----FEIJIAFATTI PDG--YPEPLP-LIKIEEDDNAPY
Dsc3	EC1	RWAPIPCASMOENSLSGPFLFLQQVQESDAQN---YTIVFYSISGRGDKEPLNLFYIERDTGKL-FCTRPVDRREEIDV-----FDLIAYASTADG--YSADLPLP-LPTRYEDENDHPV
Dsc4	EC1	RWAPIPCASMOENSLSGPFLFLQQVQESDAQN---YTIVFYSISGRGDKEPLNLFYIERDTGKL-FCTRPVDRREEIDV-----FDLIAYASTADG--YSADLPLP-LPTRYEDENDHPV
Cnr1	EC3	DRSLYTVKLPEW-PNGTLWVKVNASLDLEGV--INGDIMSFTSDISPNWK-YKFHDPSVGET-IVKGYIDFECKS-----YEILTEGDKQ---LPLSGHICKVIVQVEDINDVPEL
Cnr2	EC3	QHPEYEVRLENS-DINGTTVIRLNASDKEGT--NSAISYSFIRLVPPTKL-EQFSTDADEGTI-ITQGNLDFEQDV-----YKIHDATDKGH--PPMWGHCIVLKVLDENDNVQI
Cnr3	EC3	DRAIYRKVLENA-RNGTVVIRLNASDDEGS--NGQILYSFAADVSPKTE-ATFHIDSVSGETI-KVNGKIDFEETNL-----WIKIQAEANDKGS---PPMFHGCTLIEVLDINDMAPK
Cnr5	EC3	DRFVYKVKVLEDA-LNGTLVNLNATDPEGT--INGDIYSFRRPVSPAVV-HAFNIDSNSGEV-RTKGULDFEEIKL-----YEIPVEAOKGN--IPMTGHCITLVELLDNDNAPEV
Cnr6	EC3	DKSTIYWRLLENT-PNGTLWVKVNASDKEGT--INKETLYFFSILVLDVK-SKFTIDSSSGEI-KVKGELDYEDCKV-----YEINIDAVRSA---FPLAGHCKITVKLVDNDNIPEM
Cnr7	EC3	DHLEYKVRIMENA-AKETLVITLNATDDEGA--NGQLVYSLMS-IKPGRH-LFTLDEKNGEL-RVNGTLDYEENKL-----YEIEVLATDKGT--PPMWGHCIVWLVEILDNDNSPEV
Cnr8	EC3	DRSYVEVKMVNEQ-EKTLVIVLNATDSDEGT--NKEVEYESSESSLASSIR-QKELINEKTGETI-KINGAIDFEESIN---YEIHVDACTVLYETLDENDNAPF

Fig. 2B

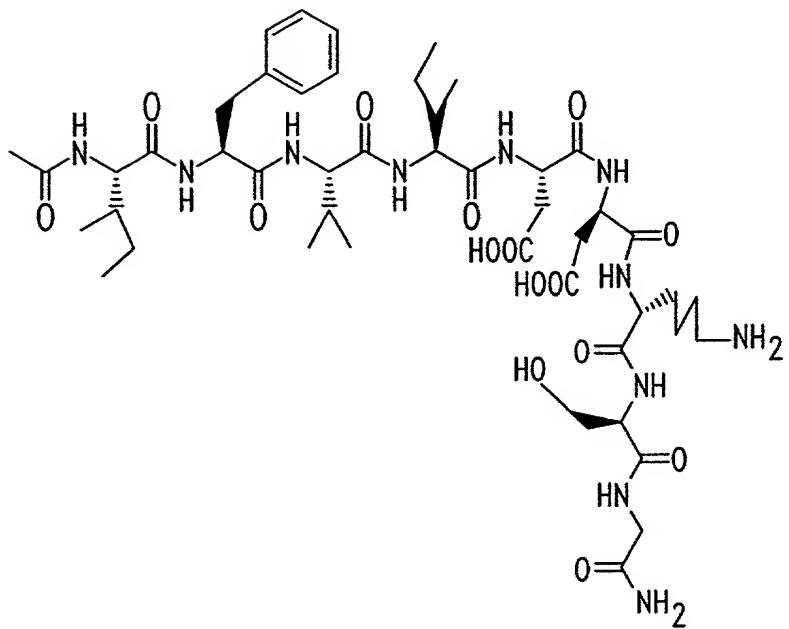
Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS  
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

Human G W V W N Q F F V I E E Y T G P D P V L V G R L H S D I D S G D G N I K Y I L S G E G A G  
Mouse G W V W N Q F F V I E E Y T G P D P V L V G R L H S D I D S G D G N I K Y I L S G E G A G  
  
Human T I F V I D D K S G N I H A T K T L D R E E R A Q Y T L M A Q A V D R D T N R P L E P P S  
Mouse T I F V I D D K S G N I H A T K T L D R E E R A Q Y T L M A Q A V D R D T N R P L E P P S  
  
Human E F I V K V Q D I N D N P P E F  
Mouse E F I V K V Q D I N D N P P E F

*Fig. 3*

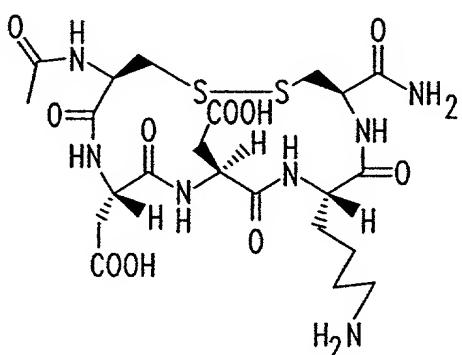


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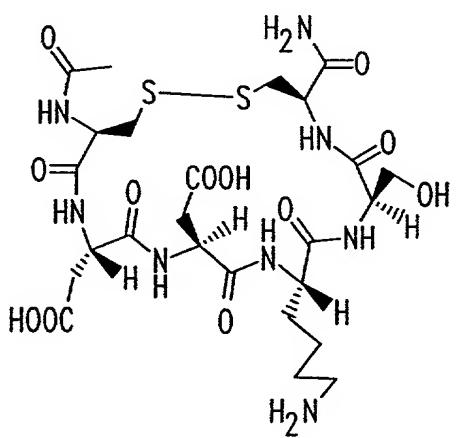


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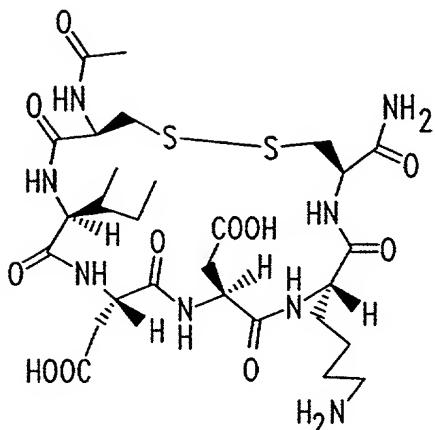
Fig. 4A



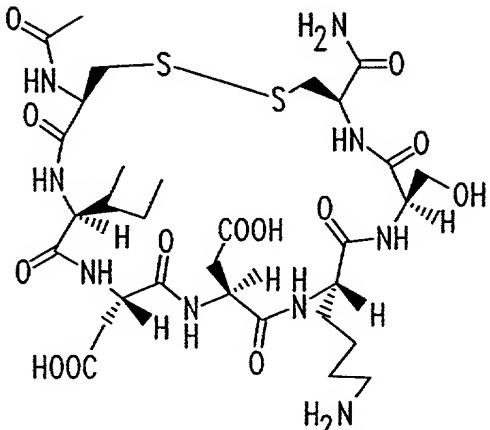
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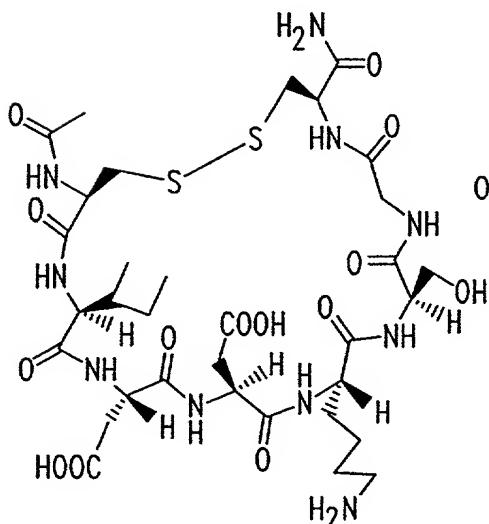
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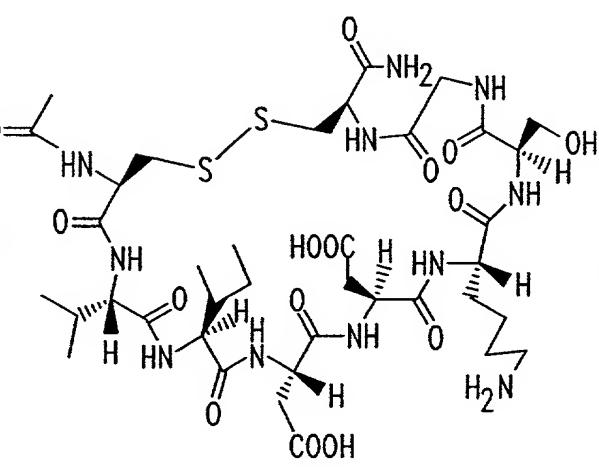
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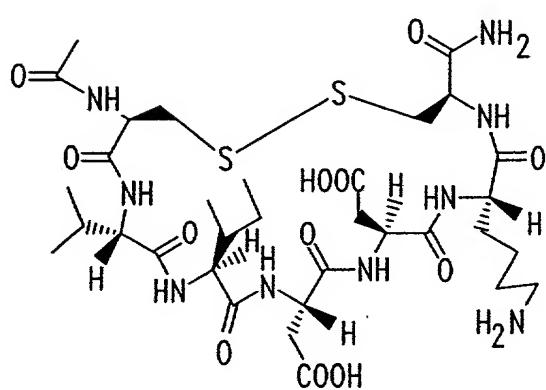


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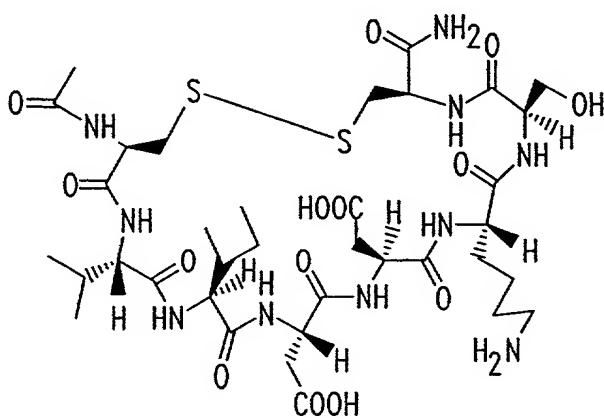


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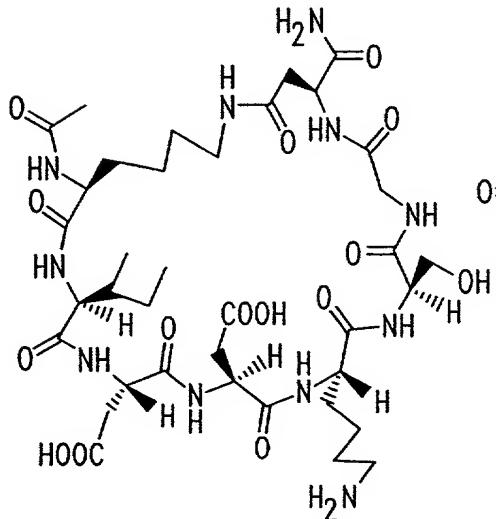
Fig. 4B



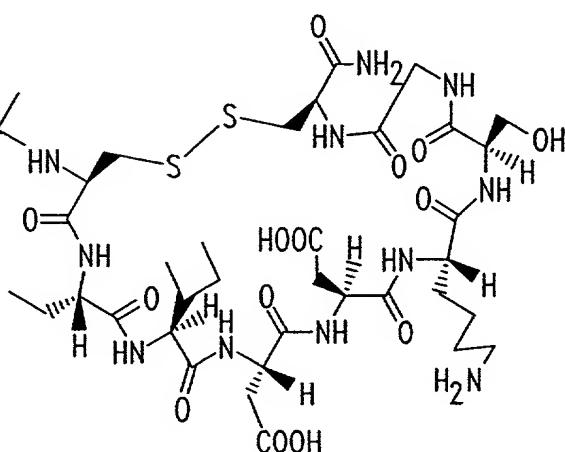
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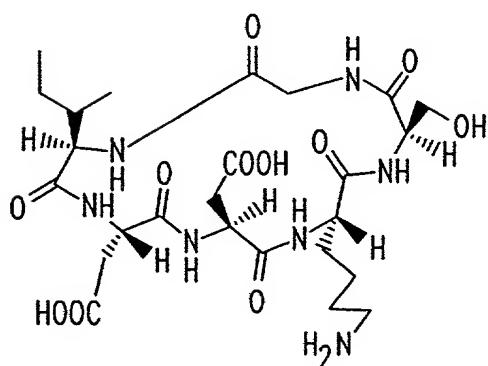
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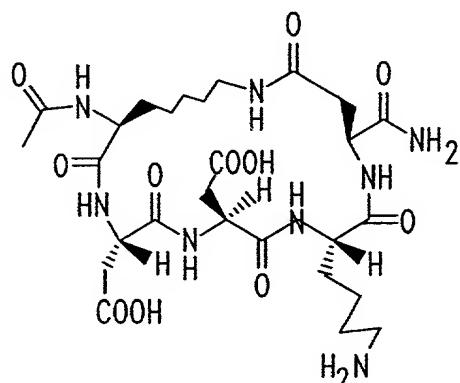
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N-Ac-CVIDDKSGC-NH<sub>2</sub>



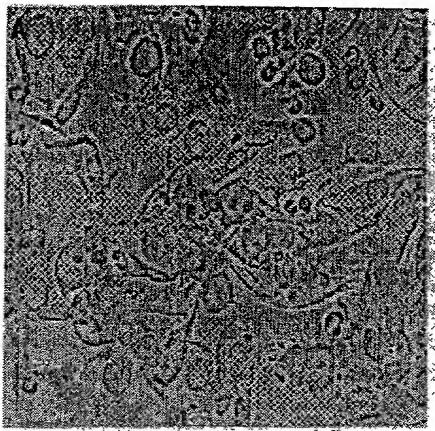
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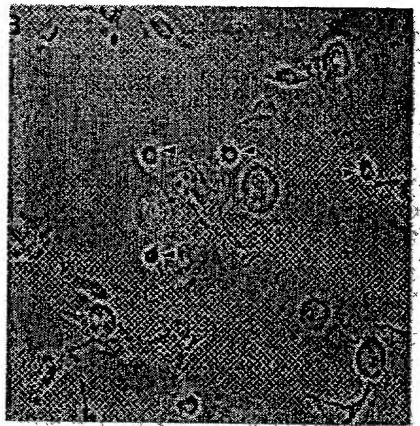
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Fig. 4C

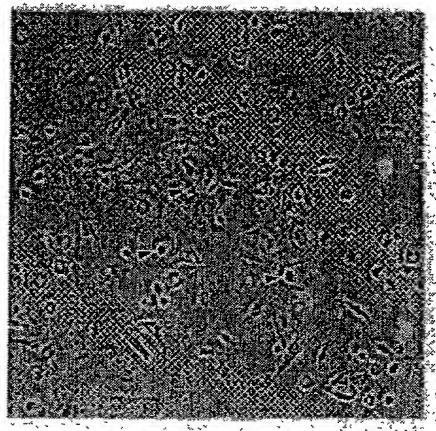
Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS  
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1



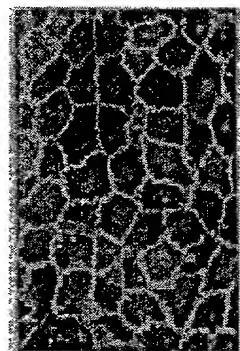
*Fig. 5A*



*Fig. 5B*



*Fig. 5C*



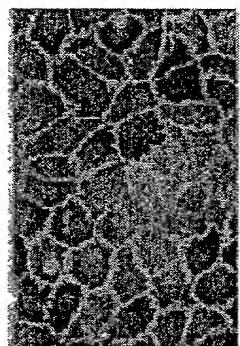
Control

*Fig. 6A*



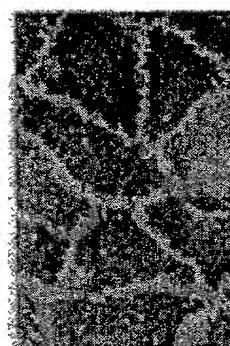
Control

*Fig. 6B*



H-VFRVDAETGD-OH

*Fig. 6C*



H-VFRVDAETGD-OH

*Fig. 6D*



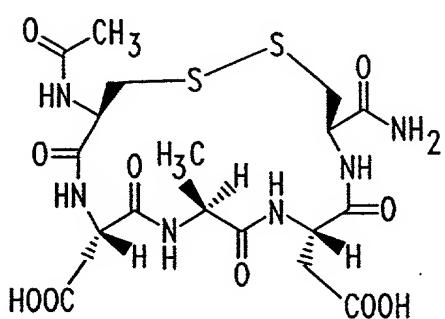
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*Fig. 6E*

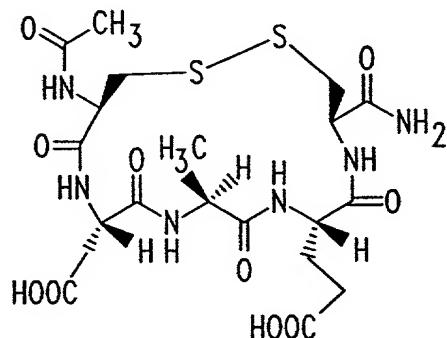


N-Ac-VFRVDAETGD-NH<sub>2</sub>

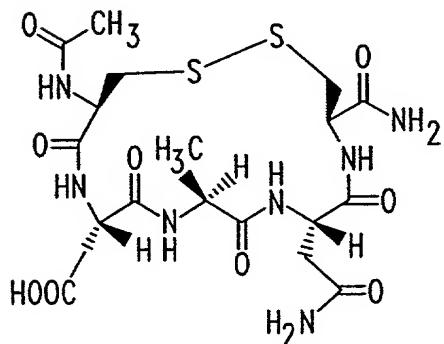
*Fig. 6F*



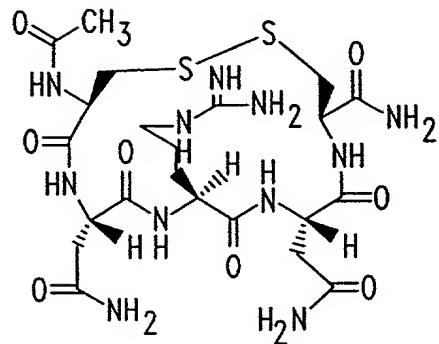
N-Ac-CDADC-NH<sub>2</sub>



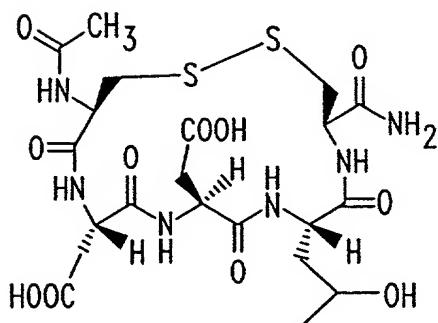
N-Ac-CDAEC-NH<sub>2</sub>



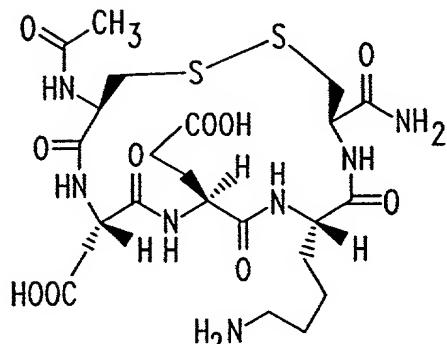
N-Ac-CDANC-NH<sub>2</sub>



N-Ac-CNRNC-NH<sub>2</sub>

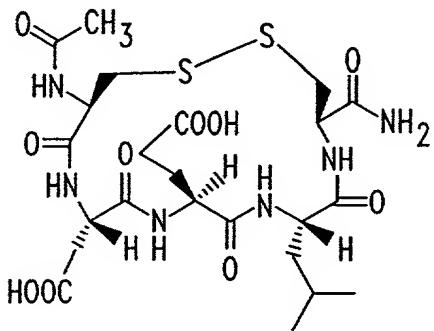


N-Ac-CDDTC-NH<sub>2</sub>

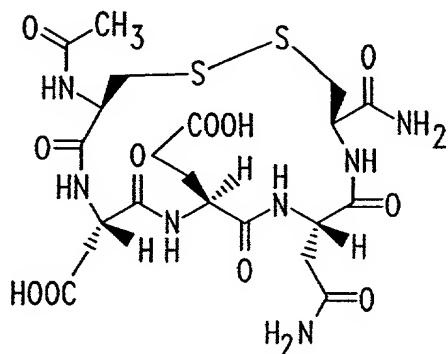


N-Ac-CDEKC-NH<sub>2</sub>

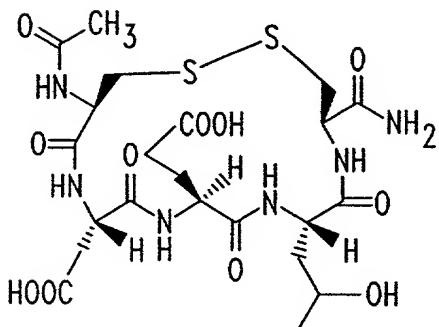
Fig. 7A



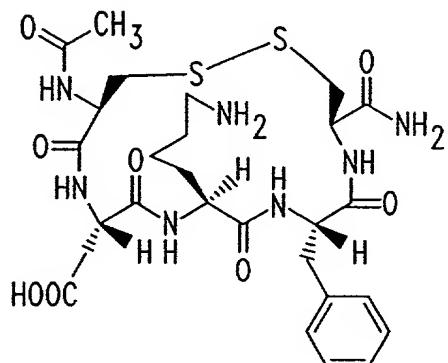
N-Ac-CDELC-NH<sub>2</sub>



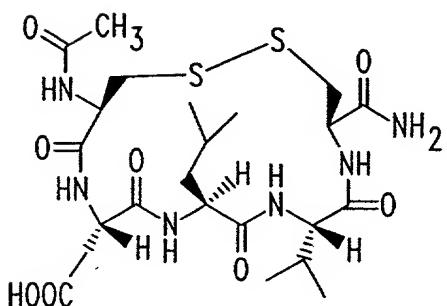
$$\text{N-Ac-}\underline{\text{CDENC}}-\text{NH}_2$$



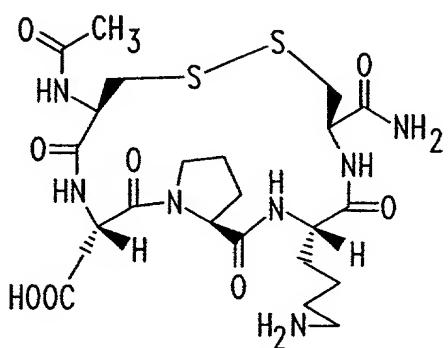
### N-Ac-CDETC-NH<sub>2</sub>



$$\text{N-Ac}-\underline{\text{CDKFC}}-\text{NH}_2$$

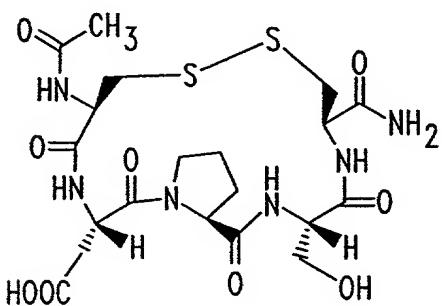


N-Ac-CDLVC-NH<sub>2</sub>

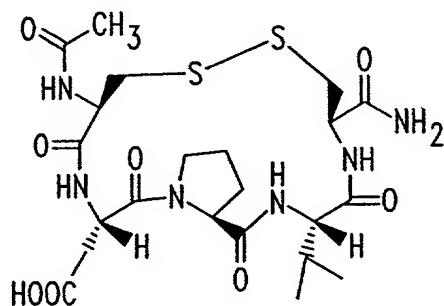


N-Ac-CDPKC-NH<sub>2</sub>

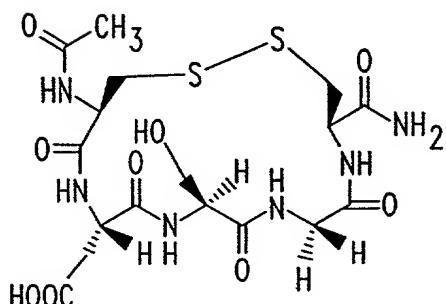
*Fig. 7B*



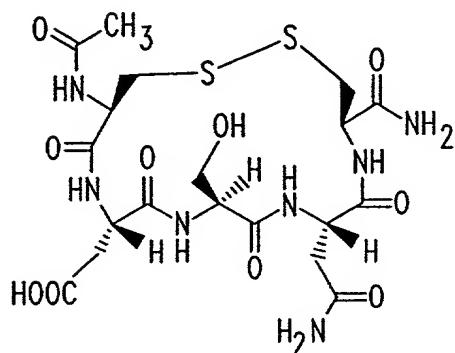
N-Ac-CDPSC-NH<sub>2</sub>



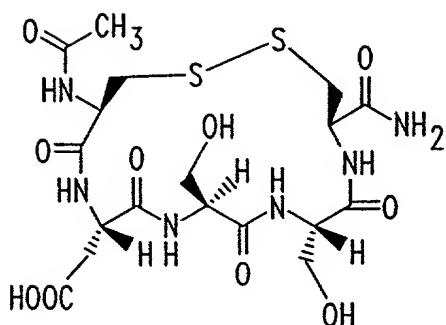
N-Ac-CDPVC-NH<sub>2</sub>



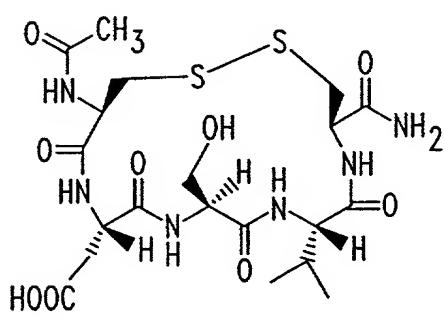
N-Ac-CDSGC-NH<sub>2</sub>



N-Ac-CDSNC-NH<sub>2</sub>

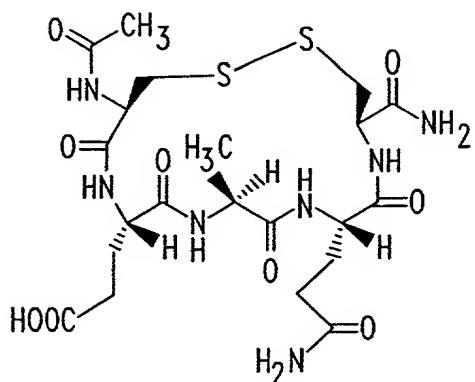


N-Ac-CDSSC-NH<sub>2</sub>

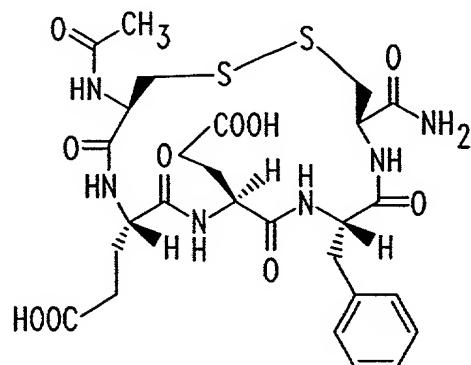


N-Ac-CDSVC-NH<sub>2</sub>

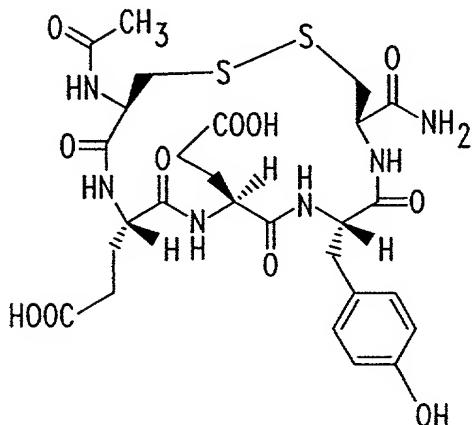
Fig. 7C



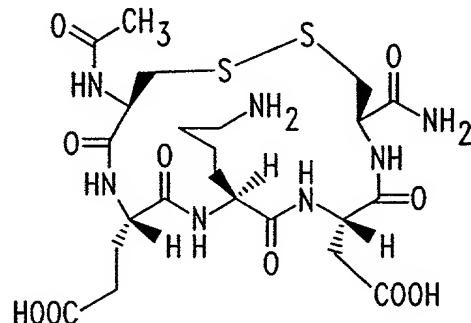
N-Ac-CEAQc-NH<sub>2</sub>



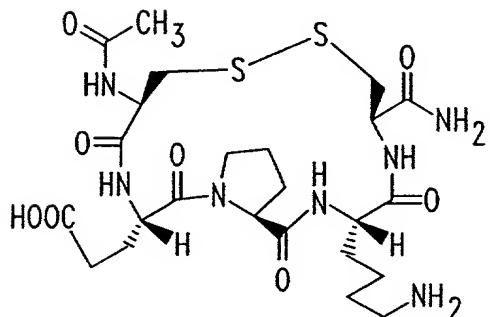
N-Ac-CEEFC-NH<sub>2</sub>



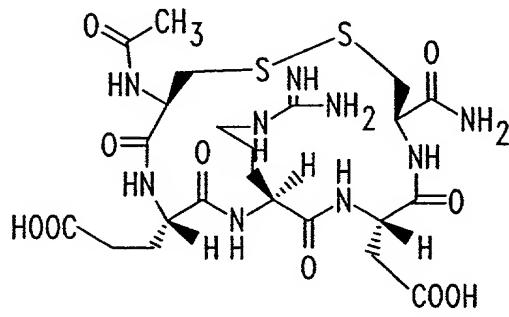
N-Ac-CEEYC-NH<sub>2</sub>



N-Ac-CEKDC-NH<sub>2</sub>

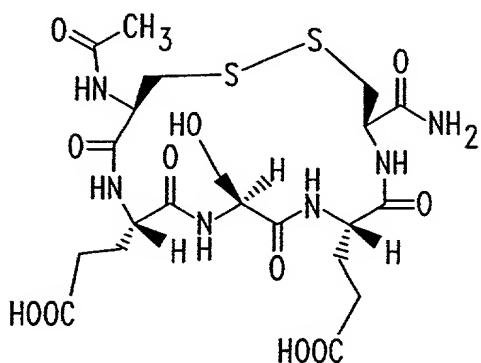


N-Ac-CEPKC-NH<sub>2</sub>

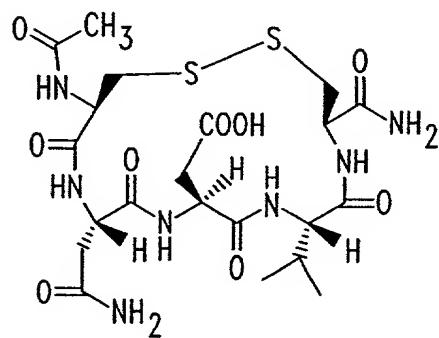


N-Ac-CERDC-NH<sub>2</sub>

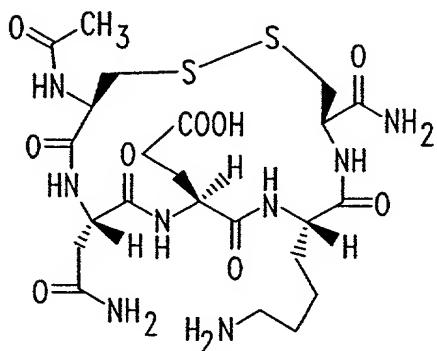
Fig. 7D



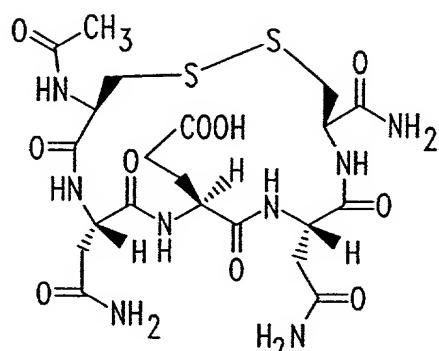
N-Ac-CESEC-NH<sub>2</sub>



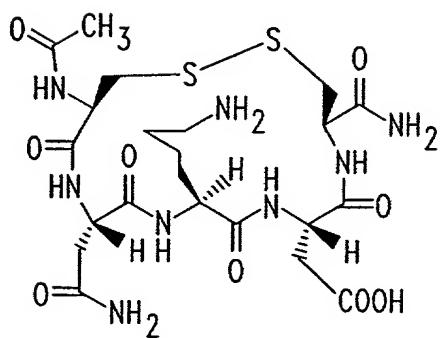
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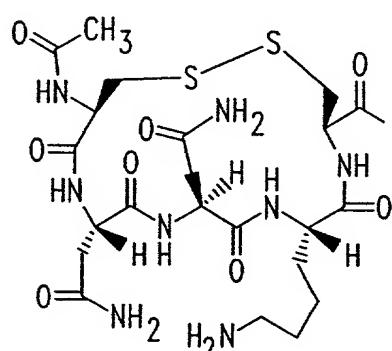
N-Ac-CNEKC-NH<sub>2</sub>



N-Ac-CNENC-NH<sub>2</sub>

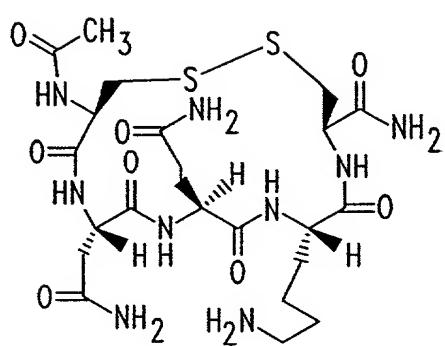


N-Ac-CNKDC-NH<sub>2</sub>

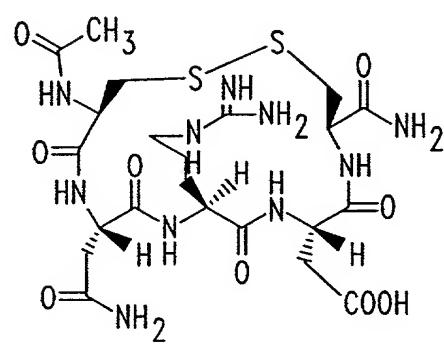


N-Ac-CNNKC-NH<sub>2</sub>

Fig. 7E



N-Ac-CNQKC-NH<sub>2</sub>



N-Ac-CNRDC-NH<sub>2</sub>

Fig. 7F